

ABSTRACT

The present invention relates to a device and method for measuring a three-dimensional shape and, more particularly, to a measurement device and method in which a specific pattern is generated on the surface of an object to be measured, the object is photographed using a camera, and data on the 3-D shape are acquired from a photographed image, wherein an irregular pattern is employed, thus simplifying a process of measuring the 3-D shape. The present invention is suitable for the measurement of a moving object, the fabrication of the device can be easily performed, various pattern generation means can be utilized, and an inexpensive and popularized image camera can be used instead of an expensive industrial camera. The present invention can be applied to the fabrication of custom-made shoe soles and custom-made shoes and a medical field.